

CE 4990 - Construction Scheduling

Developing an RSM*- Week 4, Problem 1

January 30, 2012

Problem 1

Consider the following RSM problem - see diagram of any one particular unit - it repeats for 6 units. Note the following:

- The quantity of work for the activity A in units 3 and 4 are double that of the work in other units.
- There is no requirement for activity C in unit 5.

Once you have developed the RSM consider rescheduling the project using the following scenarios:

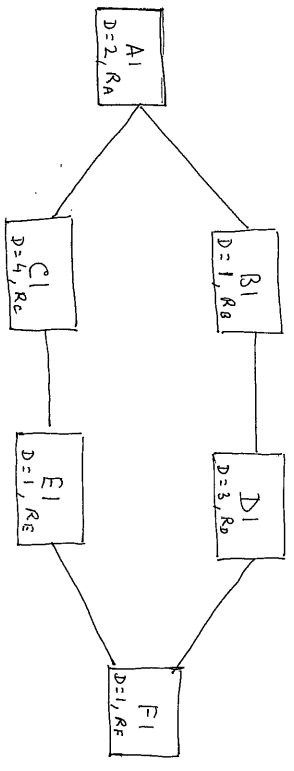
- Increase the unit production rate of D to $\frac{1}{2}$ units per day
- Increase the unit production rate of D to $\frac{1}{2}$ units per day

Problem 2

Develop a RSM schedule for the AISC case study.

Errata: There is a lead time of 2 between A and C and a dependency relationship between D and C

*This note refers to and directly reflects lessons from Harris, R.B. & Ioannou, P.G. (1998) "Scheduling Projects with Repeating Activities." *J. of Const. Eng. & Mgmt, ASCE*, 124(4), pp 269-278



1.1.1